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DRCSI News: Director to Brief in U.S.-India Workshop, Center for Decision, Risk, Controls and Signals Intelligence

Naval Postgraduate School (U.S.)

Monterey, California: Naval Postgraduate School.

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Center for Decision, Risk, Controls and Signals Intelligence




- High level defense scientists and experts from the U.S. Department of Defense will be joining the experts from India's Defense Research Development Organization (DRDO) in New Delhi in September to hold a joint scientific workshop in **Directed Energy Weapon Systems, Unmanned Systems and Autonomy, and Cognitive Sciences**. The U.S. team includes scientists from Army Research Laboratories (ARL), Office of Naval Research (ONR), Naval Warfare Systems Centers, Air Force Research Laboratories (AFRL), Joint Technology Office (JTO) for High Energy Lasers and DRCSI Director (S. S. Sritharan) from NPS. The meeting, organized by the Office of the Secretary of Defense (OSD), will be expected to stimulate partnerships and collaborations between United States and India in these high priority defense science disciplines.

- DRCSI Director will be giving a colloquium at the prestigious **Indian Statistical Institute in New Delhi**, India on the topic " *probabilistic aspects of the Navier-Stokes equations*" on September 12th during the last afternoon of his visit to India to participate in the US-India

Defense workshop on directed energy weapons and unmanned systems organized by OSD and DRDO.

- RCSI Director will be giving a colloquium at the Department of Mathematics of India's top ranked **Indian Institute of Technology (IIT) at Delhi** on the 11th afternoon of September. The title of his talk will be "*The Three Astras of Tosio Kato: Harmonic Analysis Methods of Fluid Dynamics & Physics*".

- DRCSI research publication authored by former NPS-NRC Fellow Dr. Pani Fernando and S. S. Sritharan, entitled "*Non-Detection Probability of Diffusing Targets in the Presence of a Moving Searcher*," has been accepted for publication in the journal *Communications on Stochastic Analysis*.

- DRCSI research publication entitled "*Stochastic Navier-Stokes Equation in Unbounded Channel Domains*," authored by Manil Mohen, Utpal Manna and S. S. Sritharan, has been accepted for the *Journal of Mathematical Fluid Mechanics*.

- DRCSI Director delivered 20 lectures (each one hour long) in Bharathiyar University, Coimbatore, India during June 30-July 12th and the lectures were attended by over 100 students and faculty from this university and other regional institutions. The subject areas of the lectures covered mathematical fluid mechanics, magneto-hydrodynamics, quantum electrodynamics, nonlinear wave propagation in plasma, and compressible fluid dynamics. http://www.nps.edu/Academics/Centers/DRCSI/docs/poster14final.pdf

- DRCSI Researchers will make two presentations in the forthcoming **Directed Energy Weapons Professional Society Meeting** during August 25-29th, 2014 to be held in Monterey. One of these presentations will be on "Off-Axis Detection and Characterization of High Energy Lasers based on bistatic sensor measurement of atmospheric scattering" to be given by Dr. Vaibhav Kukreja, NRC Fellow, and the other one will be on " High Energy Laser Propagation deterioration by active obscurants, thermal blooming and deep turbulence" to be given by Professor S. S. Sritharan.

- DRCSI research work on directed energy weapons entitled *"Inversion Methods for Laser Parameter Extraction with Phenomenological Model Based on Off-Axis Sensor Measurements"*, authored by Dr. Nathan Moshman, Dr. Vaibha Kukreja, Dr. John Degrassie and Professor S. S. Sritharan, has been submitted for journal publication.